

1992

The Two Hundred and Eighty-Sixth Report of the Curricular Affairs Committee: Joint Report of the Curricular Affairs Committee and the Graduate Council on the Doctor of Pharmacy Degree

University of Rhode Island Faculty Senate

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Serial Number #91-92--23

THE UNIVERSITY OF RHODE ISLAND
Kingston, Rhode Island
FACULTY SENATE
BILL
Adopted by the Faculty Senate

TO: President Robert L. Carothers

FROM: Chairperson of the Faculty Senate

1. The attached BILL, titled The Two Hundred and Eighty-Sixth Report of the Curricular Affairs Committee: Joint Report of the Curricular Affairs Committee and the Graduate Council on the Doctor of Pharmacy Degree, is forwarded for your consideration.
2. The original and two copies for your use are included.
3. This BILL was adopted by vote of the Faculty Senate on March 26, 1992.
(date)
4. After considering this bill, will you please indicate your approval or disapproval. Return the original or forward it to the Board of Governors, completing the appropriate endorsement below.
5. In accordance with Section 10, paragraph 4 of the Senate's By-Laws, this bill will become effective April 16, 1992, three weeks after Senate approval, unless: (1) specific dates for implementation are written into the bill; (2) you return it disapproved; (3) you forward it to the Board of Governors for their approval; or (4) the University Faculty petitions for a referendum. If the bill is forwarded to the Board of Governors, it will not become effective until approved by the Board.

March 27, 1992
(date)

Leonard M. Kahn
Leonard M. Kahn
Chairperson of the Faculty Senate

ENDORSEMENT

TO: Chairperson of the Faculty Senate

FROM: President of the University

Returned.

- a. Approved ____.
- b. Approved subject to final approval by Board of Governors ✓ .
- c. Disapproved ____.

4/2/92
(date)

Robert L. Carothers
President

THE UNIVERSITY OF RHODE ISLAND
Kingston, Rhode Island

FACULTY SENATE

March 16, 1992

Faculty Senate Curricular Affairs Committee
Two Hundred and Eighty-Sixth Report

Joint Report of the Curricular Affairs Committee and Graduate Council

Proposal for Six Year Professional
Doctor of Pharmacy Degree
and

Discontinuation of Two Year Graduate Doctor of Pharmacy Degree

On December 9, 1991, the Faculty Senate Curricular Affairs Committee approved the proposal from the College of Pharmacy for a new 6-Year Professional Doctor of Pharmacy degree. On February 7, 1992, the Graduate Council approved the deletion of the two-year graduate Doctor of Pharmacy degree program effective Fall 1995, the deletion of seven 600-level PHP courses, effective in 1994 or 1995, and the addition of seven new 500-level PHP courses, effective in 1994 or 1995. The actions by the Curricular Affairs Committee and the Graduate Council have been held pending the budgetary impact review of the proposed Six Year Professional Doctor of Pharmacy Degree.

In accordance with section 8.85.10 of the UNIVERSITY MANUAL, the proposal was forwarded to the Office of the Vice President for Business and Finance with the request that a budgetary impact statement be prepared. Mr. J. Vernon Wyman, Assistant to the Vice President for Business and Finance, indicated in his memorandum dated February 25, 1992 that the proposed 6-year professional degree program requires an additional \$25,000 which the Office of the Provost will ensure "is incorporated into the 1993-94 Budget Allocation if the program receives all necessary approvals to proceed."

Based upon Mr. Wyman's statement, the Faculty Senate Executive Committee concluded on March 16, 1992 that the proposed 6-Year Professional Doctor of Pharmacy degree program does not require review and ranking by the new Program Review Committee because it meets the criteria for exemption set forth in section 8.85.24 of the UNIVERSITY MANUAL:

If programs do not require the allocation of funds for direct costs, or if the program can be entirely supported by reprogramming existing departmental funds, or if the amount of general revenue funds required per year does not exceed the current calendar year salary of an instructor, no review under 8.85.20 shall be required.

The Report is divided into two sections. Section I is the Report of the Curricular Affairs Committee on the Six Year Professional Doctor of Pharmacy degree. Section II is the Report of the Graduate Council on the Discontinuation of the Two Year Graduate Doctor of Pharmacy Degree and deletion of related 600-level courses and the addition of new 500-level courses required for the Six Year Professional Doctor of Pharmacy Degree Program.

SECTION I

The Curricular Affairs Committee recommends that the Faculty Senate approve the proposal for the creation of a Six Year Professional Doctor of Pharmacy Degree as follows (The proposal is in the format required by the Board of Governors for Higher Education.)

PROPOSAL FOR A DOCTOR OF PHARMACY (6-YEAR PROFESSIONAL) DEGREE

A. Program Information

1. Name of Institution
University of Rhode Island
2. Name of administrative unit
College of Pharmacy
3. Title of proposed program
Doctor of Pharmacy (Pharm.D.)
4. Intended date of program change implementation
Fall 1994
5. Anticipated date of granting first degree
May 1996
6. Intended location
Kingston Campus
7. Institutional review and approval process

Approval date

College of Pharmacy Curriculum Committee	10/08/91
College of Pharmacy faculty	10/15/91
Faculty Senate Curricular Affairs Committee	12/09/91

Faculty Senate

President of the University

8. Summary Description

The College of Pharmacy offers a 5-year B.S. and a 2-year graduate Doctor of Pharmacy (Pharm.D.) degree. The American Council on Pharmaceutical Education (ACPE), which accredits the professional pharmacy degree programs, has issued a statement that it intends to accredit only the 6-year entry-level pharmacy degree program by the year 2000. In preparation for this anticipated change this College, like many other Colleges of Pharmacy, has developed a curriculum for the 6-year degree. The current 2-year graduate Pharm.D. program will be phased out, with the last class entering in the fall of 1993. The 6-year undergraduate Pharm.D. program will be initiated, beginning with the rising 5th year students, currently enrolled in the B.S. (Pharmacy) program, in the fall of 1994. This degree option will be available to up to 12 students. The remaining 70 or so students will continue to pursue the B.S. degree. It is possible that ACPE mandate, national trends, and student demand may require the need to expand the Pharm.D. program for more than 12 students. However, under the currently available resources the College of Pharmacy is prepared to offer it to no more than 12 students.

9. Statement of resources

To initiate the program, as proposed in the accompanying course proposals, no additional faculty positions will be required. A new course Advanced Pathophysiology (PHP 561, 562), will be coordinated by our clinical faculty but taught by M.D.s affiliated with the Brown University Program in Medicine as well as other area hospitals. The maximum cost of honoraria for teaching this 8-credit course is estimated to be \$50,000 per year. The College of Pharmacy currently pays Brown University \$10,000 for allowing the 2-year graduate Pharm.D. students to take a medical sciences course and \$12,500 as stipend (\$2,500 each) to the five students in their second year. Discontinuation of the graduate degree will free up these funds for the new course. An additional \$25,000 will be provided by the Provost's office. The remaining \$2,500 will come from the College of Pharmacy endowment income.

10. Signature of the President

Robert L. Carothers

11. Persons to be contacted during the review

Zahir A. Shaikh

Blair M. Lord

College of Pharmacy Curriculum
Committee

Vice Provost for
Academic Programs

792-2362

792-2447

B. Rationale

The proposed change in program has become necessary in response to the mandate issued by the accrediting agency, ACPE. The College of Pharmacy must initiate the new program now, not only to receive accreditation, but most importantly, to remain competitive in pharmaceutical education in the Northeast region as well as nationally.

In 1977 there were only ten colleges and schools of pharmacy which offered the 6-year entry level program. The trend across the country has been to initiate 6-year entry level Pharm.D. programs so that in 1991, 39 schools and colleges offer this as either the only degree or in conjunction with the more traditional 5-year B.S. degree.

C. Institutional Role

The University of Rhode Island assumed the resources and the responsibilities of the Rhode Island College of Pharmacy and Allied Sciences in 1957. Since then the University has been a significant factor in pharmaceutical education in the United States.

The University has supported and in turn been enhanced by its College of Pharmacy. It is clearly a part of the long range objectives of the University to maintain a program of study in pharmacy which will be compatible with the institute's objectives and at the same time allow graduates the opportunity to become registered pharmacists and to practice pharmacy in Rhode Island as well as the other states. For reciprocity with other states to continue, it is essential to be an accredited program of the ACPE.

D. Interinstitutional Considerations

The University of Rhode Island is the only institution in the State that offers pharmacy degrees. Therefore, the proposed program will have no impact on other educational institutions in Rhode Island. Furthermore, like the existing B.S. and graduate Pharm.D. degree programs, the proposed program will also be available to the NEBHE students. It is clear that transfer into a program of study in pharmacy from other state-supported institutions of higher education will continue as per the system articulation agreement.

E. Content

Please see attached curriculum and Section II for new 500-level courses.

F. Evaluation

As has been the case, the program will be monitored on a continuous basis. It is expected that there will be changes in the program on a year-to-year basis and that three years after initiation, there will be a formal appraisal by the faculty with outside experts.

In November 1991, when the scheduled self-study and the ACPE visitations teams met to evaluate our entry level programs, the proposed program was reviewed favorably at that time.

It is usual that the ACPE will also require an evaluation and report on quality and progress three or four years into the program. This follow up will lead to full accreditation of the six-year entry level Pharm.D. program.

SECTION II

At its Meeting No. 295 held on February 7, 1992, the Graduate Council considered and approved the following curricular matters which are now submitted to the Faculty Senate for confirmation.

College of Pharmacy

- A. Discontinuation of the two-year graduate Doctor of Pharmacy program effective Fall 1995.

B. Deletion

PHP 611, 612: Advanced Therapeutics
(effective Fall 1994)

PHP 671, 672: Integrated Medical Sciences I, II
(effective Fall 1994)

PHP 681, 682: Clinical Pharmacy Seminar I, II
(effective Fall 1995)

PHP 690: Advanced Clinical Clerkship
(effective Fall 1995)

C. ADD (New)

PHP 511, 512 Advanced Pharmacotherapeutics (I and II, 3 each) The clinical use of medications in a disease-oriented approach. The basic concepts of pharmacology, pharmacy, pathophysiology, and biochemistry will be correlated to the treatment of disease. Must be taken concurrently with 561, 562. Pre: fifth year standing in the Doctor of Pharmacy program or by special permission of the instructor. Mattea and Staff (Effective Fall 1994)

PHP 561, 562 Advanced Human Pathophysiology (I and II, 4 each) The etiology, epidemiology, pathology, and clinical laboratory manifestation of diseases occurring in man. This intensive course will be taught in a biomedical format. (Lec. 4) Pre: fifth year standing in the Doctor of Pharmacy program, or by special permission of the course instructor. Owens and Staff (Effective Fall 1994)

PHP 581, 582 Clinical Pharmacy Seminar (I and II, 1) Presentations made by students on appropriate advanced clinical pharmacy topics. (Sem.) Pre: fifth or sixth year standing in the Doctor of Pharmacy program or by special permission of the instructor. Dudley and Staff (Effective Fall 1994)

PHP 590 Advanced Clinical Pharmacy Clerkship (I and II, 5) Through direct clinical contact, students will learn how to provide optimal pharmacotherapy for patients. This is accomplished by collecting and interpreting data to design, recommend, implement, and modify patient specific pharmacotherapy in collaboration with other health professionals. (Five credits taken five times for a total of 25 credits.) Pre: sixth year standing in the Doctor of Pharmacy program, or by special permission of the instructor. Owens and Staff (Effective Fall 1995)

DOCTOR OF PHARMACY (Pharm.D.)

The six-year entry-level Doctor of Pharmacy (Pharm.D.) professional degree program will be initiated in the fall of 1994. Students who are enrolled in the B.S. (Pharmacy) degree program at the College of Pharmacy, University of Rhode Island, must be in good standing in order to apply for admission to the six-year program. Applications must be received by the Pharm.D. Admissions Committee no later than November 15 in the Fall semester of the student's fourth year. Individuals holding a B.S. (Pharmacy) degree from an ACPE-accredited program may also apply. Their applications must be dated no later than October 15 in the year preceding the prospective admission. The College will accept a maximum of 12 students in the Pharm.D. program. Up to 4 of those admitted may consist of the individuals holding the ACPE-accredited B.S. (Pharmacy) degree.

Curriculum Requirements

The course requirements for the first seven semesters of the six-year Pharm. D. program are the same as for the five-year B.S. program. See the B.S. curriculum for details. The curriculum for the remaining semesters is listed below. Students are required to take 5 credits of hospital and community externships, each. In addition, completion of a total of five clinical rotations, 5 credits each, is required. The duration of each clinical rotation is six-weeks. A total of 207 credits is required for graduation.

Fourth Year

Second semester: 19 credits

- 1 PCL 443 General Pharmacology Laboratory
- 3 MCH 444 Organic Medicinal Chemistry
- 3 PCL 446 General and Clinical Pharmacology and Toxicology III
- 2 PHP 448 Third Party Prescription Programs
- 4 PHP 456 Pharmacotherapeutics II
- 1 PHC 461 Health-Related Supplies
- 3 PHC 462 Nonprescription Drugs
- 2 PHP 471 Contemporary Pharmacy Practice Laboratory

Fifth Year

First semester: 17 credits

- 3 PHP 511 Advanced Therapeutics I
- 3 PHC 535 Applied Pharmacokinetics
- 4 PHP 561 Advanced Pathophysiology I
- 1 PHP 581 Seminar
- * 3 PHP 532 Quantitative Methods in Pharmacy Research
- 3 Electives

Fifth Year

Second semester: 16 credits

- 2 PHP 512 Advanced Therapeutics II
- 2 PHP 542 Drug Induced Diseases
- 1 PHP 544 Physical Assessment
- 4 PHP 562 Advanced Pathophysiology II
- 6 Electives

Sixth Year

Summer session: 5 credits (one of the three rotations)

- 5 PHP 484 Hospital Pharmacy Externship
- 5 PHP 485 Community Pharmacy Externship
- 5 PHP 590 Advanced Clinical Clerkship

Sixth Year

First semester: 16 credits

- 1 PHP 582 Seminar

(three of the four rotations)

- 5 PHP 484 Hospital Pharmacy Externship
- 5 PHP 485 Community Pharmacy Externship
- 2x5 PHP 590 Advanced Clinical Clerkship

Sixth Year

Second semester: 15 credits

- 3x5 PHP 590 Advanced Clinical Clerkship

*Pending approval by Graduate Council.

PROFESSIONAL PHARMACY PROGRAMS

First Year

First semester: 14 credits

- 3 CHM 101 General Chemistry Lecture I
- 1 CHM 102 Laboratory for Chemistry 101
- 3 A University-approved English communications course except BGS 100
- 4 ZOO 111 General Zoology
- 3 Elective

First Year

Second semester: 17 credits

- 3 CHM 112 General Chemistry Lecture II
- 1 CHM 114 Laboratory for Chemistry 112
- 3 MTH 131 Basic Calculus I
- 3 A University-approved English communications course except BGS 100
- 4 ZOO 121 Human Anatomy
- 3 Elective

Second Year

First semester: 17 credits

- 3 CHM 227 Organic Chemistry Lecture I
- 3 ECH 125 Economic Principles I
- 4 MIC 201 Introductory Medical Microbiology
- 3 ZOO 242 Introductory Human Physiology
- 1 ZOO 244 Introductory Human Physiology Laboratory
- 3 Elective

Second Year

Second semester: 17 credits

- 3 BCP 311 Introductory Biochemistry
- 3 CHM 228 Organic Chemistry Lecture II
- 2 CHM 226 Organic Chemistry Laboratory
- 3 EST 407 Introductory Biostatistics
- 6 Electives

Third Year

First semester: 16-17 credits

- 2 MCH 343 Principles of Medicinal Chemistry
- 3 PCL 327 Introduction to Human Pathophysiology
- 2 PHC 327 Biopharmaceutics
- 3 PHP 349 Pharmacy Administration Principles and
- Section A
- 3 PHC 340 Physical Pharmacy
- 3 PHC 350 Pharmaceutical Technology
- 1 PHC 360 Pharmaceutical Laboratory
- or
- Section B
- 3 MCH 342 Pharmaceutical Analysis
- 3 Elective

Third Year

Second semester: 18-19 credits

- 3 PCG 445 General Pharmacognosy
- 3 PCL 444 General and Clinical Pharmacology and Toxicology I
- 3 PHC 328 Pharmacokinetics
- 3 PHP 351 Pharmaceutical Law and Ethics and
- Section A
- 3 MCH 342 Pharmaceutical Analysis
- 3 Elective
- or
- Section B
- 3 PHC 340 Physical Pharmacy
- 3 PHC 350 Pharmaceutical Technology
- 1 PHC 360 Pharmaceutical Laboratory

Fourth Year

First semester: 19 credits

- 3 MCH 443 Organic Medicinal Chemistry
- 3 FSN 444 Nutrition and Disease
- 3 PCG 446 General Pharmacognosy
- 3 PCG 459 Public Health
- 3 PCL 445 General and Clinical Pharmacology and Toxicology II
- 4 PHP 455 Pharmacotherapeutics I

Fourth Year

Second semester: 19 credits

- 3 MCH 444 Organic Medicinal Chemistry
- 3 PCL 446 General and Clinical Pharmacology and Toxicology III
- 2 PHP 448 Third-Party Prescription Programs
- 4 PHP 456 Pharmacotherapeutics II
- 1 PCL 443 General Pharmacology Laboratory and
- Section A
- 6 Electives
- or
- Section B (required for 6-year candidates)
- 3 PHC 462 Nonprescription Drugs
- 1 PHC 461 Health-related Supplies
- 2 PHP 471 Contemporary Pharmacy Practice Laboratory

GRADUATE PHARMACY PROGRAM

2-year Doctor of Pharmacy (to be discontinued)

- 3 EST 407 Introductory Biostatistics
- 3 PHC 535 Applied Pharmacokinetics
- 5 PHP 530 Behavioral Skills in Clinical Pharmacy
- 2 PHP 542 Drug-Induced Diseases
- 3 PHP 611 Advanced Pharmacotherapeutics I
- 3 PHP 612 Advanced Pharmacotherapeutics II
- 9 PHP 671 Integrated Medical Sciences I
- 9 PHP 672 Integrated Medical Sciences II
- 1 PHP 681 Clinical Pharmacy Seminar
- 1 PHP 682 Clinical Pharmacy Seminar
- 24 PHP 690 Advanced Clinical Clerkship and Research

5-Year B.S.

12 Students

Optional 6-Year Pharm.D.

Fifth Year

First semester: 15 credits

- Section A
- 3 PHC 462 Nonprescription Drugs
- 1 PHC 461 Health-related Supplies
- 2 PHP 471 Contemporary Pharmacy Practice Laboratory
- 9 Electives
- or
- Section B
- 5 PHP 484 Hospital Pharmacy Externship
- 5 PHP 485 Community Pharmacy Externship
- 5 PHP 490 Clinical Pharmacy Clerkship

Fifth Year

Second semester: 15 credits

- Section A
- 5 PHP 484 Hospital Pharmacy Externship
- 5 PHP 485 Community Pharmacy Externship
- 5 PHP 490 Clinical Pharmacy Clerkship
- or
- Section B
- 15 Electives

Fifth Year

First semester: 17 credits

- 3 PHP 511 Advanced Therapeutics I
- 3 PHC 535 Applied Pharmacokinetics
- 4 PHP 561 Advanced Pathophysiology I
- 1 PHP 581 Seminar
- * 3 PHP 532 Quantitative Methods in Pharmacy Research
- 3 Electives

Fifth Year

Second semester: 16 credits

- 3 PHP 512 Advanced Therapeutics II
- 2 PHP 542 Drug Induced Diseases
- 1 PHP 544 Physical Assessment
- 4 PHP 562 Advanced Pathophysiology II
- 6 Electives

Sixth Year

Summer session: 5 credits (one of the three rotations)

- 5 PHP 484 Hospital Pharmacy Externship
- 5 PHP 485 Community Pharmacy Externship
- 5 PHP 590 Advanced Clinical Clerkship

Sixth Year

First semester: 16 credits

- 1 PHP 582 Seminar

(three of the four rotations)

- 5 PHP 484 Hospital Pharmacy Externship
- 5 PHP 485 Community Pharmacy Externship
- 2x5 PHP 590 Advanced Clinical Clerkship

Sixth Year

Second semester: 15 credits

- 3x5 PHP 590 Advanced Clinical Clerkship

*Pending approval by the Graduate Council.